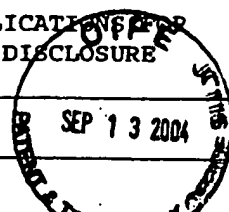


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| LIST OF PATENTS AND PUBLICATIONS APPLICANT'S INFORMATION DISCLOSURE STATEMENT | | | |
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| | | FILING DATE March 15, 2001 | GROUP 1642 |

1) Art that concerns isolation/cloning of GFP-Luciferase proteins and genes.

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| 1 | B | 4 | 9 | 6 | 8 | 6 | 1 | 3 | | 11/6/90 | Masuda et al. | 435 | 172.3 | 07/26/88 |
| 1 | C | 5 | 0 | 9 | 3 | 2 | 4 | 0 | | 3/3/92 | Inouye et al. | 435 | 69.1 | 10/8/87 |
| 1 | D | 5 | 0 | 9 | 8 | 8 | 2 | 8 | | 3/24/92 | Geiger et al. | 435 | 7.72 | 10/24/86 |
| 1 | E | 5 | 1 | 3 | 9 | 9 | 3 | 7 | | 8/18/92 | Inouye et al. | 435 | 69.1 | 11/18/88 |
| 1 | F | 5 | 1 | 6 | 2 | 2 | 2 | 7 | | 11/10/92 | Cormier | 435 | 252.33 | 03/17/88 |
| 1 | G | 5 | 1 | 8 | 2 | 2 | 0 | 2 | | 1/26/93 | Kajiyama et al. | 435 | 189 | 8/5/91 |
| 1 | H | 5 | 1 | 9 | 6 | 5 | 2 | 4 | | 3/23/93 | Gustafson et al. | 536 | 23.2 | 01/06/89 |
| 1 | I | 5 | 2 | 1 | 9 | 7 | 3 | 7 | | 6/15/93 | Kajiyama et al. | 435 | 69.1 | 3/26/91 |
| 1 | J | 5 | 2 | 2 | 9 | 2 | 8 | 5 | | 7/20/93 | Kajiyama et al. | 435 | 189 | 6/23/92 |
| 1 | K | 5 | 2 | 9 | 2 | 6 | 5 | 8 | | 3/8/94 | Cormier et al. | 435 | 252.33 | 6/17/93 |
| 1 | L | 5 | 3 | 3 | 0 | 9 | 0 | 6 | | 7/19/94 | Kajiyama et al. | 435 | 189 | 06/15/93 |
| 1 | M | 5 | 3 | 5 | 2 | 5 | 9 | 8 | | 10/4/94 | Kajiyama et al. | 435 | 189 | 8/29/91 |
| 1 | N | 5 | 3 | 6 | 0 | 7 | 2 | 8 | | 11/1/94 | Prasher | 435 | 189 | 12/1/92 |
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| 1 | P | 5 | 4 | 2 | 2 | 2 | 6 | 6 | | 06/6/95 | Cormier et al. | 435 | 252.3 | 10/9/92 |
| 1 | Q | 5 | 6 | 0 | 4 | 1 | 2 | 3 | | 02/18/97 | Kazami et al. | 435 | 189 | 06/15/94 |
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| 1 | T | 5 | 7 | 7 | 7 | 0 | 7 | 9 | | 07/07/98 | Tsien et al. | 530 | 350 | 11/20/96 |
| 1 | U | 5 | 8 | 0 | 4 | 3 | 8 | 7 | | 09/08/98 | Cornack et al. | 435 | 6 | 01/31/97 |
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| 1 | X | 0 | 3 | 8 | 7 | 3 | 5 | 5 | | 9/19/90 | EP A1 | | | | |
| 1 | Y | 0 | 5 | 4 | 0 | 0 | 6 | 4 | | 5/5/93 | EP A1 | | | | |
| 1 | Z | 3 | 0 | 3 | 0 | 6 | 7 | 8 | | 2/8/91 | JP | | | | X* |
| 1 | AA | 4 | 2 | 5 | 8 | 2 | 8 | 8 | | 09/14/92 | JP | | | | X* |
| 1 | AB | 6 | 3 | 3 | 1 | 7 | 0 | 7 | | 12/26/88 | JP | | | | X* |
| 1 <i>swl</i> | AC | 7 | 2 | 2 | 2 | 5 | 9 | 0 | | 08/22/95 | JP | | | | X* |

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| 1 | swl | AD | 8 | 7 | 0 | 3 | 3 | 0 | 4 | 6/4/87 | PCT | | | | | | | | | | | | | | | | | | | | |
| 1 | | AE | 9 | 0 | 0 | 1 | 5 | 4 | 2 | 02/22/90 | PCT | | | | | | | | | | | | | | | | | | | X* | |
| 1 | | AF | 9 | 2 | 1 | 5 | 6 | 7 | 3 | 09/17/92 | PCT | | | | | | | | | | | | | | | | | | | | |
| 1 | | AG | 9 | 5 | 0 | 7 | 4 | 6 | 3 | 3/16/95 | PCT | | | | | | | | | | | | | | | | | | | | |
| 1 | | AH | 9 | 5 | 1 | 8 | 8 | 5 | 3 | 07/13/95 | PCT | | | | | | | | | | | | | | | | | | | | |
| 1 | | AI | 9 | 5 | 2 | 1 | 1 | 9 | 1 | 8/10/95 | PCT | | | | | | | | | | | | | | | | | | | | |
| 1 | | AJ | 9 | 5 | 2 | 5 | 7 | 9 | 8 | 9/28/95 | PCT | | | | | | | | | | | | | | | | | | | | |
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| 1 | | AL | 9 | 6 | 2 | 7 | 6 | 7 | 5 | 09/12/96 | PCT | | | | | | | | | | | | | | | | | | | | |
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2) Art that concerns uses of GFP, or Luciferase.

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| 2 | DQ | 5 | 1 | 9 | 6 | 3 | 1 | 8 | 3/23/93 | Baldwin <i>et al.</i> | 435 | 69.1 | 06/26/90 |
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| 2 | DS | 5 | 2 | 4 | 6 | 8 | 3 | 4 | 9/21/93 | Tsuji <i>et al.</i> | 435 | 7.91 | 2/19/92 |
| 2 | DT | 5 | 4 | 9 | 1 | 0 | 8 | 4 | 02/13/96 | Chalfie <i>et al.</i> | 435 | 189 | 09/10/93 |
| 2 | DU | 5 | 7 | 7 | 6 | 6 | 8 | 1 | 07/07/98 | Virta <i>et al.</i> | 435 | 6 | 09/15/95 |
| 2 | DV | 5 | 8 | 9 | 1 | 6 | 4 | 6 | 04/06/99 | Barak <i>et al.</i> | 435 | 7.2 | 06/05/97 |
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| 2 | DY | 0 | 2 | 4 | 5 | 0 | 9 | 3 | 11/11/87 | EP B1 | -- | -- | | |
| 2 | DZ | 0 | 3 | 8 | 6 | 6 | 9 | 1 | 9/12/90 | EP A3 | C12Q 1 | 68 | | |
| 2 | EA | 2 | 2 | 8 | 8 | 2 | 3 | 2 | 10/11/95 | UK | | | | |
| 2 | EB | 3 | 9 | 3 | 5 | 9 | 7 | 4 | 5/2/91 | DE A1 | | | X* | |
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| 2 | ED | 9 | 6 | 0 | 7 | 1 | 0 | 0 | 03/07/96 | PCT | | | | |
| 2 | EE | 9 | 7 | 1 | 1 | 0 | 9 | 4 | 03/27/97 | PCT | -- | -- | | |
| 2 | EF | 9 | 7 | 2 | 8 | 2 | 6 | 1 | 08/07/97 | PCT | -- | -- | | |
| 2 | EG | 9 | 7 | 4 | 1 | 2 | 2 | 8 | 11/06/97 | PCT | | | | |
| 2 | EH | 9 | 8 | 0 | 2 | 5 | 7 | 1 | 01/22/98 | PCT | -- | -- | | |
| 2 | EI | 9 | 8 | 1 | 4 | 6 | 0 | 5 | 04/09/98 | PCT | -- | -- | | |
| 2 SWL | EJ | 9 | 8 | 2 | 6 | 2 | 7 | 7 | 6/18/98 | PCT | G01N | 21/76 | | |

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| 2 | FG | Hori et al., Renilla luciferin as the substrate for calcium induced photoprotein bioluminescence. Assignment of luciferin plutomers in aequorin and mnemiopsin, <u>Biochemistry</u> 14: 2371-2376, (1975). | |
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| 2 | FI | Inouye et al., Electroporation as a new technique for producing transgenic fish, <u>Cell Differ. Devel.</u> 29:123-128 (1990) | |
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| 2 | GH | Sheu et al., Measurement of intracellular calcium using bioluminescent aequorin exposed in human cells, <u>Analyt. Biochem.</u> 209(2): 343-347 (1993) | |
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| 3 | GP | 3 | 5 | 6 | 5 | 8 | 1 | 5 | | 2/23/71 | Christy | 252 | 301.3 | 12/28/67 |
| 3 | GQ | 3 | 6 | 6 | 9 | 8 | 9 | 1 | | 6/13/72 | Greenwood et al. | 252 | 90 | 5/27/70 |
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| 3 | GS | 4 | 4 | 7 | 8 | 8 | 1 | 7 | | 10/23/84 | Campbell et al. | 424 | 7.1 | 11/14/78 |
| 3 | GT | 4 | 5 | 3 | 4 | 3 | 1 | 7 | | 08/13/85 | Walsh | 119 | 51 R | 08/30/84 |
| 3 | GU | 4 | 7 | 1 | 4 | 6 | 8 | 2 | | 12/22/87 | Schwartz | 436 | 10 | 04/03/87 |
| 3 | GV | 4 | 7 | 6 | 7 | 2 | 0 | 6 | | 8/30/88 | Schwartz | 356 | 73 | 12/24/84 |
| 3 | GW | 4 | 7 | 7 | 4 | 1 | 8 | 9 | | 9/27/88 | Schwartz | 436 | 10 | 12/11/85 |
| 3 | GX | 4 | 7 | 7 | 7 | 1 | 2 | 8 | | 10/11/88 | Lippa | 435 | 5 | 05/27/86 |
| 3 | GY | 4 | 8 | 5 | 3 | 3 | 2 | 7 | | 8/1/89 | Dattagupta | 435 | 6 | 7/10/85 |
| 3 | GZ | 4 | 8 | 6 | 7 | 9 | 0 | 8 | | 9/19/89 | Recktenwald et al. | 252 | 408.1 | 6/4/87 |
| 3 | HA | 4 | 9 | 5 | 0 | 5 | 8 | 8 | | 8/21/90 | Dattagupta | 435 | 6 | 09/27/88 |
| 3 | HB | 5 | 0 | 0 | 4 | 5 | 6 | 5 | | 4/02/91 | Schaap | 252 | 700 | 07/27/88 |
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| 3 | HI | 5 | 4 | 3 | 5 | 9 | 3 | 7 | | 7/25/95 | Bell et al. | 252 | 301.18 | 02/12/93 |
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| 3 | HL | 5 | 4 | 8 | 4 | 7 | 2 | 3 | | 01/16/96 | Zenno et al. | 435 | 189 | 06/28/94 |
| 3 | HM | 5 | 4 | 8 | 6 | 4 | 5 | 5 | | 01/23/96 | Stults | 435 | 6 | 08/22/94 |
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| 3 | HQ | 0 | 2 | 4 | 6 | 1 | 7 | 4 | | 11/19/87 | EP A1 | | | X* |
| 3 | HR | 0 | 7 | 1 | 3 | 0 | 8 | 9 | | 05/22/96 | EP A2 | | | |
| 3 | HS | 2 | 2 | 9 | 2 | 5 | 9 | 5 | | 6/25/76 | FR | | | X* |
| 3 Swl | HT | 9 | 2 | 0 | 1 | 2 | 2 | 5 | | 01/23/92 | PCT | | | |

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| 3 | HV | 9 | 4 | 1 | 8 | 3 | 4 | 2 | 8/18/94 | PCT | | | | |
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4) Art that concerns novelty items which use chemi- or bioluminescence.

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| EXAMINER INITIAL | | DOCUMENT NUMBER | | | | | | | DATE | NAME | CLAS S | SUB CLAS S | FILING DATE |
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| 4 | KE | 3 | 6 | 3 | 4 | 2 | 8 | 0 | 1/11/72 | Dean et al. | 252 | 301.3 R | 12/31/68 |
| 4 | KF | 3 | 6 | 6 | 1 | 7 | 9 | 0 | 5/9/72 | Dean et al. | 252 | 301.3 R | 1/31/68 |
| 4 | KG | 4 | 5 | 6 | 3 | 7 | 2 | 6 | 1/7/86 | Newcomb et al. | 362 | 34 | 8/20/84 |
| 4 | KH | 4 | 7 | 1 | 7 | 1 | 5 | 8 | 1/5/88 | Pennisi | 273 | 58A | 6/26/86 |
| 4 | KI | 4 | 7 | 8 | 1 | 6 | 4 | 7 | 11/1/88 | Doane, Jr. | 446 | 219 | 5/4/87 |
| 4 | KJ | 4 | 9 | 2 | 4 | 3 | 5 | 8 | 5/8/90 | Von Heck | 362 | 32 | 9/12/88 |
| 4 | KK | 4 | 9 | 6 | 3 | 1 | 1 | 7 | 10/16/90 | Gualdoni | 446 | 219 | 10/30/89 |
| 4 | KL | 5 | 1 | 5 | 8 | 3 | 4 | 9 | 10/27/92 | Holland et al. | 362 | 34 | 07/03/91 |
| 4 | KM | 5 | 1 | 7 | 1 | 0 | 8 | 1 | 12/15/92 | Pita et al. | 362 | 34 | 5/29/92 |
| 4 | KN | 5 | 2 | 2 | 2 | 7 | 9 | 7 | 6/29/93 | Holland | 362 | 34 | 10/31/91 |
| 4 | KO | 5 | 3 | 2 | 3 | 4 | 9 | 2 | 6/28/94 | DeMars | 2 | 203.13 | 11/6/92 |
| 4 | KP | 5 | 3 | 8 | 3 | 1 | 0 | 0 | 01/17/95 | Kikos | 362 | 34 | 08/02/91 |
| 4 | KQ | 5 | 4 | 1 | 3 | 3 | 3 | 2 | 5/09/95 | Montgomery | 273 | 58 | 05/26/94 |
| 4 | KR | 5 | 4 | 1 | 5 | 1 | 5 | 1 | 5/16/95 | Fusi et al. | 124 | 56 | 9/20/93 |
| 4 | KS | 5 | 6 | 7 | 1 | 9 | 9 | 8 | 09/30/97 | Collet | 362 | 101 | 08/30/91 |
| 4 | KT | 5 | 7 | 3 | 0 | 3 | 2 | 1 | 03/24/98 | McAllister et al. | 222 | 1 | 12/13/95 |
| 4 | KU | 5 | 8 | 7 | 6 | 9 | 9 | 5 | 3/2/99 | Bryan | 435 | 189 | 11/25/96 |
| 4 | KV | 6 | 1 | 1 | 3 | 8 | 8 | 6 | 09/05/00 | Bryan | 424 | 49 | 11/22/99 |
| 4 <i>SWL</i> | KW | 6 | 1 | 5 | 2 | 3 | 5 | 8 | 11/28/00 | Bryan | 229 | 87.19 | 08/17/98 |

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| 4 <i>SWL</i> | KX | 9 | 7 | 2 | 9 | 3 | 1 | 9 | 08/14/97 | PCT | - | - | | |

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5) Art that concerns items/procedures that do not use chemi- or bioluminescence

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| EXAMINER INITIAL | | DOCUMENT NUMBER | | | | | | | | DATE | NAME | CLAS S | SUB CLAS S | FILING DATE |
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| 5 | KZ | 3 | 6 | 4 | 9 | 0 | 2 | 9 | | 03/14/72 | Worrell | 273 | 186 | 07/09/69 |
| 5 | LA | 3 | 7 | 2 | 7 | 2 | 3 | 6 | | 04/17/73 | Lloyd et al. | 2 | 51 | 06/15/71 |
| 5 | LB | 3 | 3 | 8 | 4 | 4 | 9 | 8 | | 5/21/68 | Ahrabi | 106 | 38.5 | 1/4/67 |
| 5 | LC | 3 | 8 | 7 | 3 | 4 | 8 | 5 | | 3/25/75 | Fichera | 260 | 29.2 | 4/3/74 |
| 5 | LD | 4 | 0 | 2 | 1 | 3 | 6 | 4 | | 5/03/77 | Speiser | 252 | 316 | 12/04/73 |
| 5 | LE | 4 | 0 | 4 | 4 | 1 | 2 | 6 | | 08/23/77 | Cook et al. | 424 | 243 | 07/09/76 |
| 5 | LF | 4 | 1 | 7 | 5 | 1 | 8 | 3 | | 11/20/79 | Ayers | 536 | 57 | 05/24/78 |
| 5 | LG | 4 | 1 | 7 | 7 | 0 | 3 | 8 | | 12/04/79 | Biebricher et al. | 8 | 192 | 05/17/77 |
| 5 | LH | 4 | 2 | 2 | 5 | 5 | 8 | 1 | | 9/30/80 | Kreuter et al. | 424 | 88 | 8/07/78 |
| 5 | LI | 4 | 2 | 2 | 9 | 7 | 9 | 0 | | 11/21/80 | Gilliland et al. | 364 | 200 | 10/16/78 |
| 5 | LJ | 4 | 2 | 6 | 9 | 8 | 2 | 1 | | 5/26/81 | Kreuter | 424 | 19 | 05/02/80 |
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| 5 | LM | 4 | 2 | 8 | 2 | 2 | 8 | 7 | | 8/4/81 | Giese | 428 | 407 | 01/24/80 |
| 5 | LN | 4 | 3 | 2 | 4 | 6 | 8 | 3 | | 4/13/82 | Lim et al. | 252 | 316 | 08/20/75 |
| 5 | LO | 4 | 3 | 6 | 4 | 9 | 2 | 3 | | 12/21/82 | Cook et al. | 424 | 46 | 04/30/81 |
| 5 | LP | 4 | 4 | 1 | 4 | 2 | 0 | 9 | | 11/08/83 | Cook et al. | 424 | 243 | 06/13/77 |
| 5 | LQ | 4 | 5 | 2 | 8 | 1 | 8 | 0 | | 7/09/85 | Schaeffer | 424 | 52 | 03/01/83 |
| 5 | LR | 4 | 5 | 4 | 2 | 1 | 0 | 2 | | 9/17/85 | Dattagupta et al. | 435 | 6 | 07/05/83 |
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| 5 | LU | 4 | 6 | 8 | 1 | 8 | 7 | 0 | | 7/21/87 | Balint et al. | 502 | 403 | 01/11/85 |
| 5 | LV | 4 | 7 | 3 | 5 | 6 | 6 | 0 | | 4/5/88 | Cane | 106 | 203 | 6/26/87 |
| 5 | LW | 4 | 7 | 4 | 5 | 0 | 5 | 1 | | 05/17/88 | Smith et al. | 435 | 68 | 05/27/83 |
| 5 | LX | 4 | 7 | 6 | 2 | 8 | 8 | 1 | | 8/09/88 | Kauer | 525 | 54.11 | 01/09/87 |
| 5 | LY | 4 | 7 | 6 | 5 | 5 | 1 | 0 | | 8/23/88 | Rende | 222 | 79 | 4/7/87 |
| 5 | LZ | 4 | 7 | 8 | 9 | 6 | 3 | 3 | | 12/06/88 | Huang | 435 | 240.2 | 04/19/84 |
| 5 | MA | 4 | 8 | 7 | 0 | 0 | 0 | 9 | | 09/26/89 | Evans et al. | 435 | 70 | 12/15/83 |
| 5 | MB | 4 | 8 | 8 | 2 | 1 | 6 | 5 | | 11/21/89 | Hunt et al. | 424 | 450 | 11/05/86 |
| 5 | MC | 4 | 8 | 9 | 1 | 0 | 4 | 3 | | 1/02/90 | Zeimer et al. | 604 | 20 | 05/28/87 |
| 5 | MD | 4 | 9 | 0 | 8 | 4 | 0 | 5 | | 3/13/90 | Bayer et al. | 525 | 61 | 01/02/86 |
| 5 | ME | 4 | 9 | 2 | 1 | 7 | 5 | 7 | | 5/01/90 | Wheatley et al. | 428 | 402.2 | 09/03/87 |
| 5 | MF | 4 | 9 | 2 | 7 | 9 | 2 | 3 | | 05/22/90 | Mathis et al. | 540 | 456 | 09/20/85 |
| 5 | MG | 4 | 9 | 5 | 2 | 4 | 9 | 6 | | 08/28/90 | Studier et al. | 435 | 91 | 12/29/86 |
| 5 | MH | 5 | 0 | 2 | 3 | 1 | 8 | 1 | | 6/11/91 | Inouye | 435 | 189 | 7/13/88 |
| 5 | MI | 5 | 0 | 9 | 6 | 8 | 0 | 7 | | 3/17/92 | Leaback | 435 | 6 | 3/17/92 |
| 5 | MJ | 5 | 1 | 2 | 8 | 2 | 5 | 6 | | 07/07/92 | Huse et al. | 435 | 172.3 | 04/20/89 |
| 5 Swl | MK | 5 | 1 | 6 | 2 | 5 | 0 | 8 | | 11/10/92 | Lehn et al. | 401 | 04 | 06/26/91 |

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| 5 | SWL | ML | 5 | 1 | 6 | 9 | 7 | 8 | 4 | 12/08/92 | Summers et al. | 435 | 320.1 | 09/17/90 |
| 5 | | MN | 5 | 2 | 1 | 5 | 8 | 9 | 9 | 06/01/93 | Dattagupta | 435 | 6 | 08/23/90 |
| 5 | | MO | 5 | 2 | 4 | 3 | 0 | 4 | 1 | 09/07/93 | Fernandez-Pol | 536 | 23.5 | 08/22/91 |
| 5 | | MP | 5 | 2 | 6 | 6 | 3 | 1 | 7 | 11/30/93 | Tomalski et al. | 424 | 93 T | 10/04/90 |
| 5 | | MQ | 5 | 2 | 6 | 8 | 4 | 6 | 3 | 12/7/93 | Jefferson | 536 | 23.7 | 12/8/89 |
| 5 | | MR | 5 | 2 | 7 | 7 | 9 | 1 | 3 | 1/11/94 | Thompson et al. | 424 | 450 | 09/09/91 |
| 5 | | MS | 5 | 2 | 8 | 8 | 6 | 2 | 3 | 02/22/94 | Zenno et al. | 435 | 69.7 | 07/13/92 |
| 5 | | MT | 5 | 3 | 1 | 0 | 4 | 2 | 1 | 5/10/94 | Shapero et al. | 106 | 208 | 2/7/92 |
| 5 | | MU | 5 | 3 | 3 | 7 | 7 | 4 | 5 | 08/16/94 | Benaron | 128 | 633 | 11/12/93 |
| 5 | | MV | 5 | 3 | 6 | 0 | 7 | 2 | 6 | 11/01/94 | Raikhel | 435 | 172.3 | 11/12/91 |
| 5 | | MW | 5 | 3 | 6 | 2 | 8 | 6 | 5 | 11/8/94 | Austin | 536 | 24.1 | 9/2/93 |
| 5 | | MX | 5 | 3 | 6 | 4 | 7 | 9 | 7 | 11/15/94 | Olson et al. | 436 | 501 | 05/20/93 |
| 5 | | MY | 5 | 3 | 6 | 6 | 8 | 8 | 1 | 11/22/94 | Singh et al. | 435 | 177 | 02/23/93 |
| 5 | | MZ | 5 | 3 | 8 | 7 | 5 | 2 | 6 | 2/07/95 | Garner et al. | 436 | 169 | 09/11/91 |
| 5 | | NA | 5 | 4 | 0 | 5 | 9 | 0 | 5 | 4/11/95 | Darr | 524 | 420 | 11/26/93 |
| 5 | | NB | 5 | 4 | 0 | 5 | 9 | 5 | 8 | 4/11/95 | VanGermert | 544 | 71 | 12/21/92 |
| 5 | | NC | 5 | 4 | 1 | 2 | 0 | 8 | 5 | 5/2/95 | Allen et al. | 536 | 24.1 | 11/09/93 |
| 5 | | ND | 5 | 4 | 1 | 3 | 0 | 9 | 8 | 05/09/95 | Benaron | 128 | 633 | 12/22/92 |
| 5 | | NE | 5 | 4 | 3 | 2 | 0 | 8 | 1 | 7/11/95 | Jefferson | 435 | 252.3 | 11/15/93 |
| 5 | | NF | 5 | 4 | 5 | 5 | 3 | 5 | 7 | 10/03/95 | Herrmann et al. | 548 | 147 | |
| 5 | | NG | 5 | 4 | 6 | 4 | 7 | 5 | 8 | 11/7/95 | Gossen et al. | 435 | 69.1 | 6/14/93 |
| 5 | | NH | 5 | 4 | 9 | 6 | 9 | 3 | 4 | 03/05/96 | Shoseyov et al. | 536 | 23.7 | 04/14/93 |
| 5 | | NI | 5 | 6 | 0 | 5 | 6 | 6 | 2 | 02/25/97 | Heller et al. | 422 | 68.1 | 11/01/93 |
| 5 | | NJ | 5 | 6 | 2 | 4 | 7 | 1 | 1 | 04/29/97 | Sundberg et al. | 427 | 261 | 04/27/95 |
| 5 | | NK | 5 | 6 | 3 | 2 | 9 | 5 | 7 | 05/27/97 | Heller et al. | 422 | 68.1 | 09/09/94 |
| 5 | | NL | 5 | 6 | 7 | 0 | 6 | 2 | 3 | 09/23/97 | Shoseyov et al. | 530 | 350 | 06/02/95 |
| 5 | | NM | 5 | 7 | 3 | 8 | 9 | 8 | 4 | 04/14/98 | Shoseyov | 435 | 4 | 06/02/95 |
| 5 | | NN | 6 | 0 | 2 | 0 | 5 | 3 | 8 | 02/01/00 | Han et al. | 800 | 293 | 05/01/98 |
| 5 | SWL | NO | 6 | 2 | 3 | 2 | 1 | 0 | 7 | 05/15/01 | Bryan et al. | 435 | 189 | 03/26/99 |

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| 5 | SWL | NP | 7 | 2 | 4 | 1 | 1 | 9 | 2 | 9/95 | JP A | | | X* |
| 5 | | NQ | 8 | 6 | 0 | 3 | 8 | 4 | 0 | 07/03/86 | PCT | | | |
| 5 | | NR | 9 | 3 | 1 | 3 | 3 | 9 | 5 | 07/08/93 | PCT | | | |
| 5 | | NS | 9 | 4 | 2 | 5 | 8 | 5 | 5 | 11/10/94 | PCT | | | |
| 5 | SWL | NT | 9 | 6 | 0 | 7 | 9 | 1 | 7 | 03/14/96 | PCT | | | |

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| OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.) | | |
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| 5 <i>SWL</i> | NU | Altschul et al., "Basic Local Alignment Search Tool", <i>J. Mol. Biol.</i> , 215:403-410; (1990) |
| 5 | NV | Anderson, Radiolaria, Springer-Verlag, New York (1983) |
| 5 | NW | Aviv et al., Purification of Biologically Active Globin Messenger RNA by Chromatography on Oligothymidylic acid-Cellulose, <i>Proc. Natl. Acad. Sci. USA</i> 69(6):1408-1412 (1972). |
| 5 | NX | Batra et al., "Insertion of Constant Region Domains of Human IgG, into CD4-PE40 Increases Its Plasma Half-life", <i>Molecular Immunol.</i> , 30(4):379-386; (1993) |
| 5 | NY | Bayer and Wichek (1980) The Use of Avidin/Biotin Complex as a Tool in Molecular Biology. <i>Meth. Biochem. Anal.</i> 26, 1-45 |
| 5 | NZ | Berg et al., Long-chain polystyrene-grafted polyethylene film matrix: a new support for solid-phase peptide synthesis, <i>J. Am. Chem. Soc.</i> 111: 8026-8027 (1989) |
| 5 | OA | Berg et al., Peptide synthesis on polystyrene-grafted polyethylene sheets, <i>Pept., Proc. Eur. Pept. Symp.</i> , 20th, Jung et al. (Eds.), pp. 196-198 (1989) |
| 5 | OB | Berg et al., Polystyrene-grafted polyethylene: Design of film and felt matrices for solid-phase peptide synthesis, <i>Innovation Perspect. Solid Phase Synth. Collect. Pap., Int. Symp., 1st</i> , Epton (ed.), pp. 453-459 (1990) |
| 5 | OC | Biocomputing: Informatics and Genome Projects, Book: Smith, D.W., Ed., Academic Press, New York; (1993) |
| 5 | OD | Bodanszky and Bodanszky, <i>The Practice of Peptide Synthesis</i> , Springer-Verlag, New York, (1984) |
| 5 | OE | Bunnin et al. The combinatorial synthesis and chemical and biological evaluation of a 1,4-benzodiazepine library, <i>Proc. Natl. Acad. Sci. USA</i> , 91:4708-4712 (1994) |
| 5 | OF | Carlsson et al. Protein Thiolation and Reversible Protein-Protein Conjugation <i>Biochem. J.</i> 173: 723-737 (1978) |
| 5 | OG | Carrillo et al., "The Multiple Sequence Alignment Problem in Biology", <i>SIAM J. Applied Math.</i> , 48(5):1073-1082; (1988) |
| 5 | OH | Childress, "Oxygen minimum layer: Vertical distribution and respiration of the mysid gnathophausia ingens", <i>Science</i> 160:1242-1243 (1968) |
| 5 | OI | Chirgwin et al., Isolation of Biologically Active Ribonucleic Acid from Sources Enriched in Ribonuclease, <i>Biochemistry</i> 18(24):5294-5299 (1979). |
| 5 | OJ | <i>Computational Molecular Biology</i> , Book: Lesk, A.M., ed., Oxford University Press, New York; (1988) |
| 5 | OK | <i>Computer Analysis of Sequence Data</i> , Book: Part I, Griffin, A.M., and Griffin, H.G., eds., Humana Press, New Jersey; (1994) |
| 5 | OL | Cumber et al., "Structural Features of the Antibody-A Chain Linkage that Influence the Activity and Stability of Ricin A Chain Immunotoxins", 3(5):397-401; (1992) |
| 5 | OM | Devereux et al., "A comprehensive set of sequence analysis programs for the VAX", <i>Nucl. Acids Res.</i> , 12(1):387-395; (1984) |
| 5 | ON | DeWitt et al., Diversomers: an approach to nonpeptide, nonoligomeric chemical diversity, <i>Proc. Natl. Acad. Sci. USA</i> 90: 6909-6913 (1993) |
| 5 | OO | DeWitt et al., DIVERSOMER™ Technology: solid phase synthesis, automation, and integration for the generation of chemical diversity, <i>Drug Dev Res</i> 33:116-124 (1994). |
| 5 | OP | DIALOG Abstract 002042687, citing: JP 7241192 |
| 5 | OQ | Düzgunes et al., Fusion of phospholipid vesicles induced by divalent cations and protons; modulation by phase transitions, free fatty acids, monovalent cations, and polyamines, <i>Cell Fusion</i> , Ch. 11 Divalent Cations and Protons, Sowers, A.E. (ed.) pp. 241-267 (1984). |
| 5 <i>SWL</i> | OR | Fattom et al., "Comprehensive Immunogenicity of Conjugates Composed of the |

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| 5 | OS | Goodchild, "Conjugates of oligonucleotides and modified oligonucleotides: A review of their synthesis and properties", <i>Perspectives in Bioconjugate Chemistry</i> , Mears, ed., American Chemical Society, Washington, D.C., Ch 6, pp. 77-99 (1993) | |
| 5 | OT | Gordon et al. Topographical localization of the C-terminal region of the voltage-dependent sodium channel from <i>Electrophorus electricus</i> using antibodies raised against a synthetic peptide <i>Proc. Natl. Acad. Sci.</i> 84:308-312 (1987) | |
| 5 | OU | Gribskov et al., "Sigma factors from <i>E. coli</i> , <i>B. subtilis</i> , phage SP01, and phage T4 are homologous proteins", <i>Nucl. Acids Res.</i> , 14(16):6745-6762; (1986) | |
| 5 | OV | Guide to Human Genome Computing, Book: Martin J. Bishop, ed., Academic Press, San Diego; (1994) | |
| 5 | OW | Guyomard et al., Integration and germ line transmission of foreign genes microinjected into fertilized trout eggs, <i>Biochimie</i> 71:857-863 (1989) | |
| 5 | OX | Hazum et al., A photocleavable protecting group for the thiol function of cysteine, <i>Pept., Proc. Eur. Pept. Symp.</i> , 16th, Brunfeldt, K (Ed), pp. 105-110 (1981) | |
| 5 | OY | Hermanson et al., <i>Immobilized Affinity Ligand Techniques</i> , Chaps. 1 and 2, Academic Press, Inc. (1992) | |
| 5 | OZ | Immobilized Biochemicals and Affinity Chromatography, <i>Advances in Experimental Medicine and Biology</i> , vol. 42, ed. R. Dunlap, Plenum Press, N.Y. (1974) Table of Contents | |
| 5 | PA | Immobilized Enzyme, Antigens, Antibodies and Peptides. Preparation and Characterization, Marcel Dekker, Inc., N.Y., Howard H. Weetall (ed.) (1975) | |
| 5 | PB | Jellinek et al., "Potent 2'-Amino-2'-deoxypyrimidine RNA Inhibitors of Basic Fibroblast Growth Factor", <i>Biochem.</i> , 34:11363-11372; (1995) | |
| 5 | PC | Kennedy and Cabral, Immobilized Enzymes, in <i>Solid Phase Biochemistry, Analytical and Synthetic Aspects</i> , Scouten, Ed., 7:253-391 (1983) | |
| 5 | PD | Kent et al., Preparation and properties of tert-butyloxycarbonylaminoacyl-4-(oxymethyl) phenylacetamidomethyl-(Kel F-g-styrene) resin, an insoluble, noncrosslinked support for solid phase peptide synthesis, <i>Israel J. Chem.</i> 17: 243-247 (1978) | |
| 5 | PE | Kozak, Structural Features in Eukaryotic mRNAs that Modulate the Initiation of Translation <i>The Journal of Biological Chemistry</i> 266:19867-19870 (1991) | |
| 5 | PF | Kröger et al., "A new calcium binding glycoprotein family constitutes a major diatom cell wall component", <i>EMBO</i> 13:4676-4683 (1996) | |
| 5 | PG | Kröger et al., "Frustulins: domain conservation in a protein family associated with diatom cell walls", <i>Eur. J. Biochem.</i> 239:259-264 (1996) | |
| 5 | PH | Lin et al., "Modified RNA sequence pools for <i>in vitro</i> selection", <i>Nucl. Acids Res.</i> , 22(24):5229-5234; (1994) | |
| 5 | PI | Liposome Technology, Targeted Drug Delivery and Biological Interaction, vol. III, G. Gregoriadis (ed.), CRC Press, Inc. (1984) Table of Contents | |
| 5 | PJ | Mahan et al., "Phase Change Enzyme Immunoassay", <i>Anal. Biochem.</i> , 162:163-170; (1987) | |
| 5 | PK | Mengeling et al., A microplate assay for analysis of solution-phase glycosyltransferase reactions: Determination of kinetic constants, <i>Anal. Biochem.</i> 199:286-292 (1991) | |
| 5 | PL | Millon et al., "Synthesis of a new reagent, ethyl 4-azidobenzoylaminoacetimidate, and its use for RNA-protein cross-linking within <i>Escherichia coli</i> ribosomal 30-S subunits", <i>Eur. J. Biochem.</i> 110:485-492 (1980) | |
| 5 | PM | Molecular Biology of the Gene, 4th Edition, 1987, ed. Watson et al. The Benjamin/Cummings Pub. co. Pg 224 | |

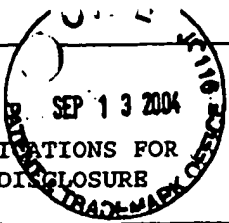
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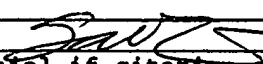
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| 5 | PO | Mosbach et al. Immobilization of enzymes to various acrylic copolymers. Methods in Enzymology 44:53-65 (1976) | |
| 5 | PP | Mosbach et al. Immobilized coenzymes. Methods in Enzymology 44:859-887 (1976) | |
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| 5 | PR | Mosbach, K. Immobilized Enzymes. Methods in Enzymology 44:3-7 (1976) | |
| 5 | PS | Nakamura et al., DNA Sequence of the Gene for the Outer Membrane Lipoprotein of E. coli: an Extremely AT-Rich Promoter, Cell 18:1109-1117 (1979). | |
| 5 | PT | Needleman et al., "A General Method Applicable to the Search for Similarities in the Amino Acid Sequence of Two Proteins", J. Mol. Biol., 48:443-453; (1970) | |
| 5 | PU | Nogady, Medicinal Chemistry, A Biochemical Approach, Oxford University Press, New York pp. 388-392. | |
| 5 | PV | Ozato et al., Production of transgenic fish: introduction and expression of chicken α -crystalline gene in medaka embryos, Cell Differ. Devel. 19:237-244 (1986) | |
| 5 | PW | Pagratis et al., "Potent 2'-amino-, and 2'-fluoro-2'-deoxyribonucleotide RNA inhibitors of keratinocyte growth factor", Nature Biotechnol., 15:68-73; (1997) | |
| 5 | PX | Pearson et al., "Improved tools for biological sequence comparison", Proc. Natl. Acad. Sci. U.S.A., 85:2444-2448; (1988) | |
| 5 | PY | Peffer et al., "Strand-invasion of duplex DNA by peptide nucleic acid oligomers", Proc. Natl. Acad. Sci. U.S.A. 90:10648-10652 (1993) | |
| 5 | PZ | Pierce Catalog, pp. T123-T154, 1994 | |
| 5 | QA | PIERCE Catalog & Handbook, pp. O90-O110, T155-T200 (1994) | |
| 5 | QB | PIERCE CATALOG, ImmunoTechnology Catalog & Handbook (1992-1993) | |
| 5 | QC | Sambrook et al., Molecular Cloning, 2nd ed., Cold Springs Harbor Laboratory press, New York (1989). | |
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| 5 | QF | Sequence Analysis in Molecular Biology, Book: von Heijne, Academic Press, Inc., (1987) | |
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| 5 | QK | Thorpe et al., "New Coupling Agents for the Synthesis of Immunotoxins Containing a Hindered Disulfide Bond with Improved Stability in Vivo", Cancer Res., 47:5924-5931; (1987) | |
| 5 | QL | Tomme et al., Cellulose-Binding Domains: Classification and Properties, American Chemical Society pp.142-163 (1995). | |
| 5 | QM | Travis, J., X-rays speed healing of rat spinal cords, Science News 150:214, (1996) | |
| 5 | QN | Urlaub et al., Effect of Gamma Rays at the Dihydrofolate Reductase Locus: Deletions and Inversions, Somatic Cell and Molecular Genetics 12(6):555-566 (1986). | |
| 5 | QO | Walden et al., "Major Histocompatibility Complex-Restricted and Unrestricted Activation of | |

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| 5 | | QR | Wellhöner et al., "Uptake and Concentration of Bioactive Macromolecules by K562 Cells via the Transferrin Cycle Utilizing an Acid-labile Transferrin Conjugate", <i>J. Biol. Chem.</i> , 266(7):4309-4314; (1991) | | |
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